

**Claim Amendments**

This listing of claims will replace all prior versions, and listings, of claims of the application.

**Listing of Claims**

Claims 1-23 (Canceled).

Claim 24 (Currently Amended): A polymer mixture, comprising:

- a) a polymer matrix which is composed of:
  - i) a (meth)acrylate (co)polymer with a Vicat softening point (ISO 306-B50) of at least 104° C; or of
  - ii) a mixture of (meth)acrylate (co)polymers with a Vicat softening point (ISO 306-B50) of at least 104° C; or and/or of
  - iii) a (meth)acrylimide (co)polymer; or
  - iv) mixtures of a (meth)acrylimide (co)polymer (iii) with (i) or (ii);
- b) an impact modifier which is based on crosslinked poly(meth)acrylates and which does not have covalent bonding to the polymer matrix a);
- c) from 1 to 15 % by weight of plastics particles composed of crosslinked polymers based on polymethyl methacrylate, on polystyrene and/or on polysilicones, with a median particle size in the range from 1 to 30 µm,  
wherein a), b) and c) give a total of 100 % by weight, and  
wherein the polymer mixture may also comprise conventional additives, auxiliaries and/or fillers, and a test specimen injection-moulded from the polymer mixture simultaneously has the following properties:
  - a roughness value R<sub>z</sub> to DIN 4768 of at least 0.7 µm;
  - a gloss (R 60°) to DIN 67530 of at most 40; and

a Vicat softening point (ISO 306-B50) of at least 90° C.

Claim 25 (Previously Presented): The polymer mixture according to Claim 24, wherein the components are present with the following quantitative proportions:

- a) from 25 to 75 % by weight;
- b) from 5 to 60 % by weight; and
- c) from 1 to 15 % by weight.

Claim 26 (Previously Presented): The polymer mixture according to Claim 24, wherein the impact modifier b) has a two- or three-shell structure.

Claim 27 (Currently Amended): A polymer mixture according to Claim 24, wherein the polymer matrix a) is composed of a (meth)acrylate (co)polymer composed of from 96 to 100 % by weight of methyl methacrylate and from 0 to 4 % by weight of methyl acrylate, ethyl acrylate and/or butyl acrylate.

Claim 28 (Previously Presented): The polymer mixture according to Claim 24, wherein the polymer matrix a) is a copolymer composed of methyl methacrylate, styrene and maleic anhydride.

Claim 29 (Previously Presented): The polymer mixture according to Claim 28, wherein the polymer matrix a) is a copolymer composed of:  
from 50 to 90 % by weight of methyl methacrylate;  
from 10 to 20 % by weight of styrene; and  
from 5 to 15 % by weight of maleic anhydride.

Claim 30 (Currently Amended): The polymer mixture according to Claim 24, wherein the constituents a) and b) of the polymer mixture are introduced individually or in the form of a compounded material which comprises the following components:

- d) a low-molecular-weight (meth)acrylate (co)polymer[[], characterized by a solution viscosity in chloroform at 25° C (ISO 1628 – Part 6) smaller than or equal to 55 ml/g;
- e) an impact modifier based on crosslinked poly(meth)acrylates;
- f) a relatively high-molecular-weight (meth)acrylate (co)polymer; characterized by a solution viscosity in chloroform at 25° C (ISO 1628 – Part 6) smaller than or equal to 65 ml/g; and/or
- g) a (meth)acrylate (co)polymer other than d) characterized by a solution viscosity in chloroform at 25° C (ISO 1628 – Part 6) of from 50 to 55 ml/g;
  - wherein each of the components d), e), f) and/or g) may be an individual polymer or else a mixture of polymers,
  - wherein d), e), f) and/or g) give a total of 100 % by weight;
  - wherein the polymer mixture ~~may also comprise~~ optionally comprises conventional additives, auxiliaries and/or fillers; and
  - wherein a test specimen produced from the polymer mixture of components d), e), f) and/or g) simultaneously has the following properties:
    - a tensile modulus (ISO 527) of at least 2600 MPa;
    - a Vicat softening point (ISO 306-B50) of at least 109° C;
    - an impact strength (ISO 179-2D, flatwise) of at least 17 kJ/m<sup>2</sup>; and
    - a melt index (ISO 1133, 230° C/3.8 kg) of at least 1.5 cm<sup>3</sup>/10 min.

Claim 31 (Previously Presented): The polymer mixture according to Claim 30, wherein the components are present with the following quantitative proportions and give a total of 100 % by weight:

- d) from 25 to 75 % by weight;
- e) from 10 to 60 % by weight;
- f) and/or g) from 10 to 50 % by weight.

Claim 32. (Previously Presented): The polymer mixture according to Claim 30, wherein component d) is a copolymer composed of methyl methacrylate, styrene and maleic anhydride.

Claim 33. (Currently Amended): The polymer mixture according to Claim 32, wherein component d) is a copolymer composed of:

from 50 to 90 % by weight of methyl methacrylate;  
from 10 to 20 % by weight of styrene; and  
from 5 to 15 % by weight of maleic anhydride.

Claim 34. (Previously Presented): The polymer mixture according to Claim 30, wherein component e) has a two- or three-shell structure.

Claim 35. (Previously Presented): The polymer mixture according to Claim 30, wherein component f) is a copolymer composed of methyl methacrylate, styrene and maleic anhydride.

Claim 36. (Currently Amended) The polymer mixture according to Claim 35, wherein component f) is a copolymer composed of:

from 50 to 90 % by weight of methyl methacrylate;

from 10 to 20 % by weight of styrene; and

from 5 to 15 % by weight of maleic anhydride.

Claim 37 (Currently Amended): The polymer mixture according to Claim 30, wherein component g) is a homopolymer or copolymer composed of at least 80 % by weight of methyl methacrylate and, ~~where appropriate~~ optionally, up to 20 % by weight of other monomers copolymerizable with methyl methacrylate.

Claim 38 (Currently Amended): The polymer mixture according to Claim 36 37, wherein component g) is a copolymer composed of from 95 to 99.5 % by weight of methyl methacrylate and from 0.5 to 5 % by weight of methyl acrylate, ethyl acrylate and/or butyl acrylate.

Claim 39 (Currently Amended): The polymer mixture according to Claim 24, wherein a lubricant is present as an auxiliary.

Claim 40 (Currently Amended): The polymer mixture according to Claim 38, wherein stearyl alcohol is present as a mould-release agent.

Claim 41 (Currently Amended): The polymer mixture according to Claim 24, wherein it the polymer mixture takes the form of a pelletized moulding composition.

Claim 42 (Currently Amended): A process for producing an injection mouldings moulded article, which comprises:

~~adding[[,] a injection molding the polymer mixture according to Claim 24 as starting material in the injection mouldings into the shape of an object.~~

Claim 43 (Currently Amended): An injection moulding moulded article[,,] capable of production in a as prepared by the process according to Claim 42.

Claim 44 (Currently Amended): The injection moulding according to Claim 42, wherein ~~it the injection moulded article~~ has a roughness value Rz to DIN 4768 of at least 0.7 µm, a gloss (R 60°) to DIN 67530 of at most 40 and a Vicat softening point (ISO 306-B50) of at least 90° C.

Claim 45 (Currently Amended): The injection moulding moulded article according to Claim 42, wherein ~~it the injection moulded article~~ has one or more of the following properties:

a tensile modulus (ISO 527) of at least 2600 MPa;  
a Vicat softening point (ISO 306-B50) of at least 108° C;  
an impact strength (ISO 179-2D, flatwise) of at least 10 kJ/m<sup>2</sup>; and  
a melt index (ISO 1133, 230°C/3.8 kg) of at least 0.5 cm<sup>3</sup>/10 min.

Claim 46 (Currently Amended): The injection moulding moulded article according to Claim 42, wherein the injection moulding moulded article is a part of a household appliance, communication device, device for hobbies or sports, or a bodywork part or a part

of bodywork parts in the construction of automobiles, ships or aircraft.

Claim 47 (New): A polymer mixture, consisting essentially of:

- a) a polymer matrix which is composed of:
  - i) a (meth)acrylate (co)polymer with a Vicat softening point (ISO 306-B50) of at least 104° C; or
  - ii) a mixture of (meth)acrylate (co)polymers with a Vicat softening point (ISO 306-B50) of at least 104° C; or
  - iii) a (meth)acrylimide (co)polymer; or
  - iv) mixtures of a (meth)acrylimide (co)polymer (iii) with (i) or (ii);
- b) an impact modifier which is based on crosslinked poly(meth)acrylates and which does not have covalent bonding to the polymer matrix a);
- c) from 1 to 15 % by weight of plastics particles composed of crosslinked polymers based on polymethyl methacrylate, on polystyrene and/or on polysilicones, with a median particle size in the range from 1 to 30 µm,  
wherein a), b) and c) give a total of 100 % by weight, and  
wherein the polymer mixture may also comprise conventional additives, auxiliaries and/or fillers, and a test specimen injection-moulded from the polymer mixture simultaneously has the following properties:
  - a roughness value R<sub>z</sub> to DIN 4768 of at least 0.7 µm;
  - a gloss (R 60°) to DIN 67530 of at most 40; and
  - a Vicat softening point (ISO 306-B50) of at least 90° C.